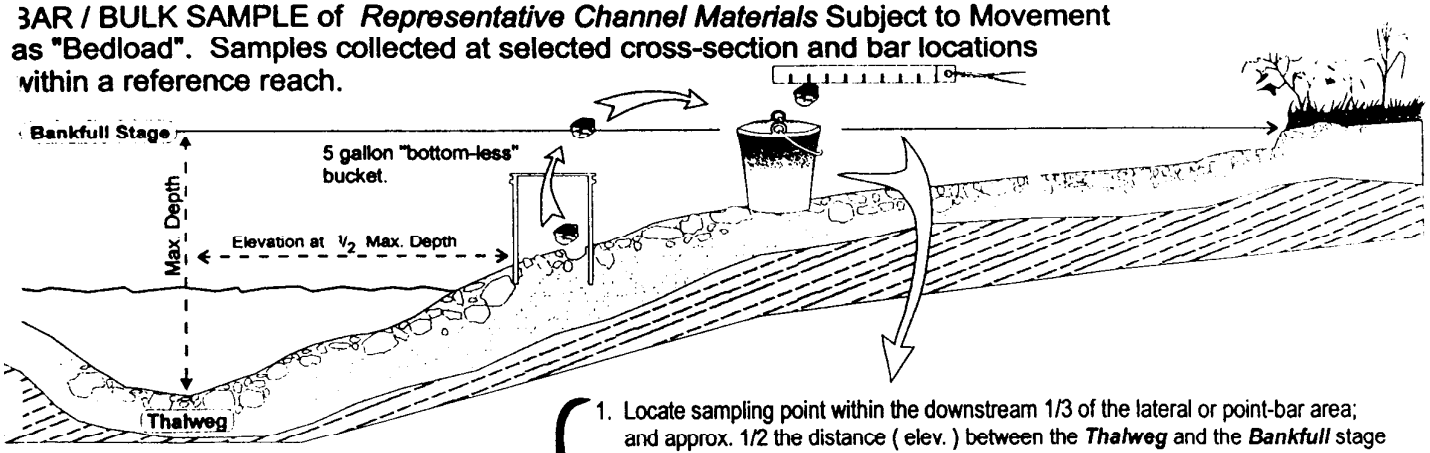
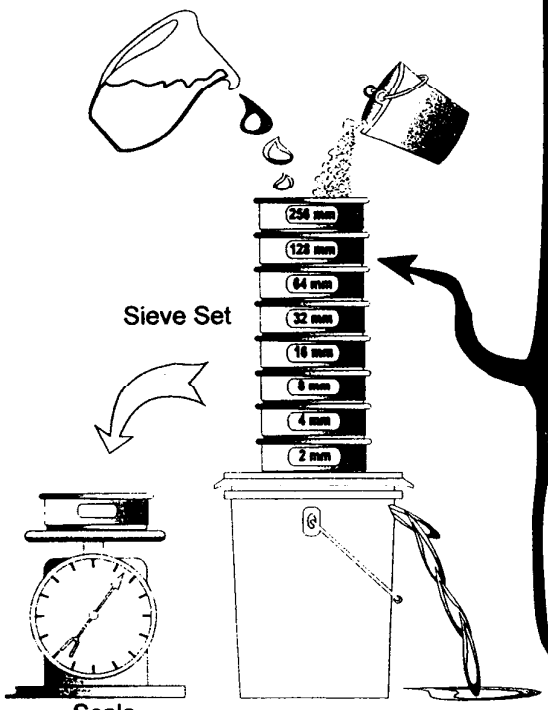
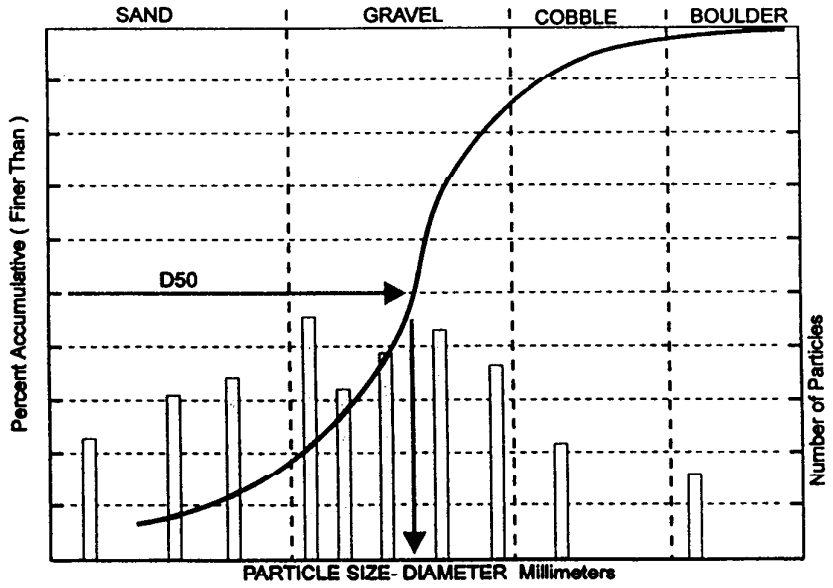
BAR / BULK SAMPLE of *Representative Channel Materials* Subject to Movement as "Bedload". Samples collected at selected cross-section and bar locations within a reference reach.





1. Locate sampling point within the downstream 1/3 of the lateral or point-bar area; and approx. 1/2 the distance (elev.) between the ***Thalweg*** and the ***Bankfull*** stage elevations.
2. For "***coarse material***" systems: Remove the 2 largest particles from "bottom-less" bucket. Measure mean diameters and individually weigh particles.
3. Excavate materials from "bottom-less bucket", to a depth equal to twice the diameter of the largest surface particle, with materials placed in second bucket or bag for sieving / weighing.
4. For "**fine material**" systems: Remove the two largest particles and set aside. Excavate materials from bucket, to a depth of 4 to 6 inches, with materials placed in a second bucket or bag for sieving / weighing.
5. "Wet-sieve" the collected channel materials, with water and standard sieve set, using a 2-millimeter screen size for the bottom sieve.
6. Weigh materials sieved and record weights (less tare wt.) by size class. *Include weights and mean diameters of the two largest particles collected.*
7. Determine a *material size-class distribution* for all of the collected materials. These data represent the range of channel materials subject to movement or transport as "bedload" sediment materials.
8. Plot data; determine size-class indices, i.e. D16, D35, D50, D84, etc.



Point / Side BAR-BULK MATERIALS SAMPLE DATA: Size Distribution Analysis

Party:

Location:

Date:

Notes:

SUB SAMPLES

	Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE		Sieve SIZE	
	Tare Weight		Tare Weight		Tare Weight		Tare Weight		Tare Weight		Tare Weight		Tare Weight		Tare Weight		Tare Weight	
	Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights		Sample Weights	
	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net	Total	Net
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
Net Wt. Total																		
% Grand Tot.																		
Accum. % =<																		

SURFACE MATERIALS DATA
(Two Largest Particles)

No.	Dia.	WT.
1		
2		

Bucket + Materials Weight_____

Bucket Tare Weight_____

Materials Weight_____
(Materials less than: _____mm.)

Be Sure to Add Separate Material Weights to Grand Total

GRAND TOTAL SAMPLE WEIGHT

NOTES